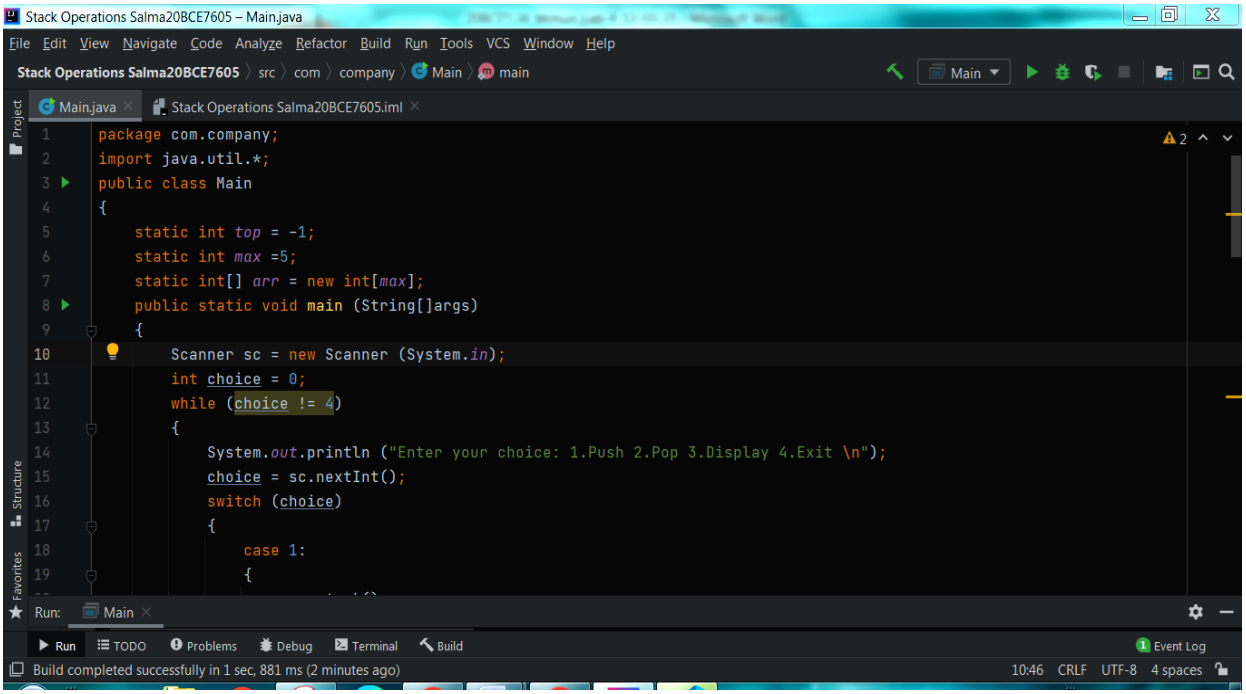
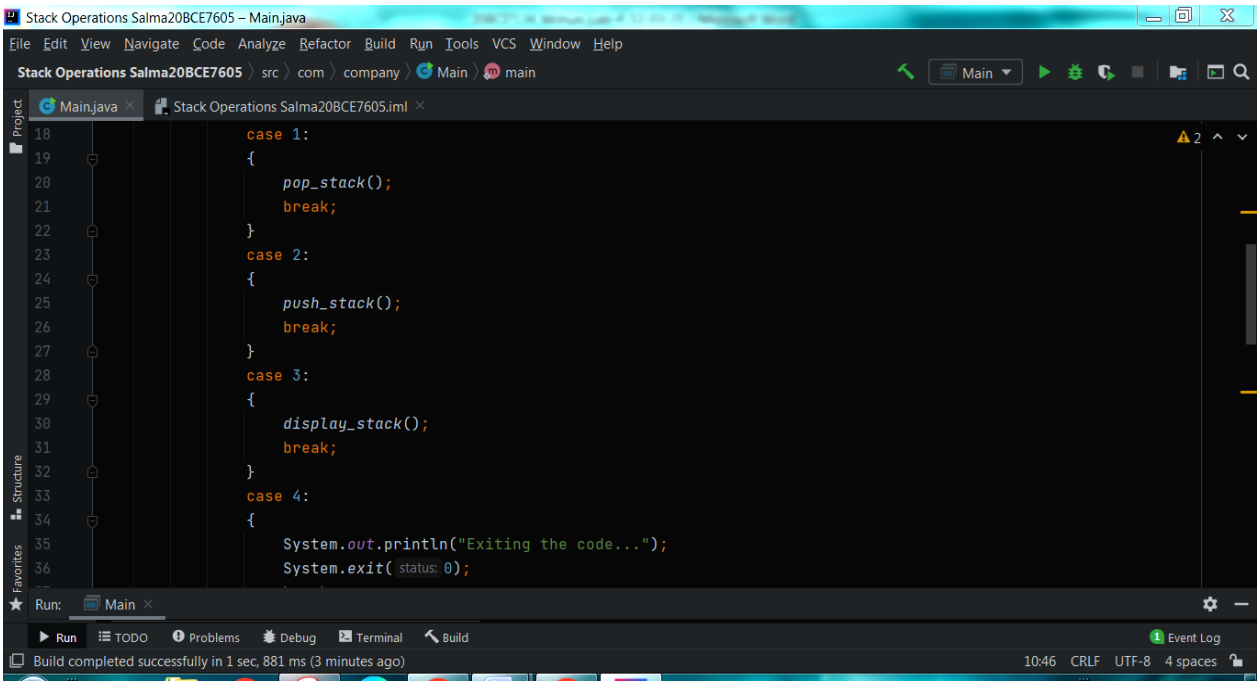
Salma Date:13/03/21

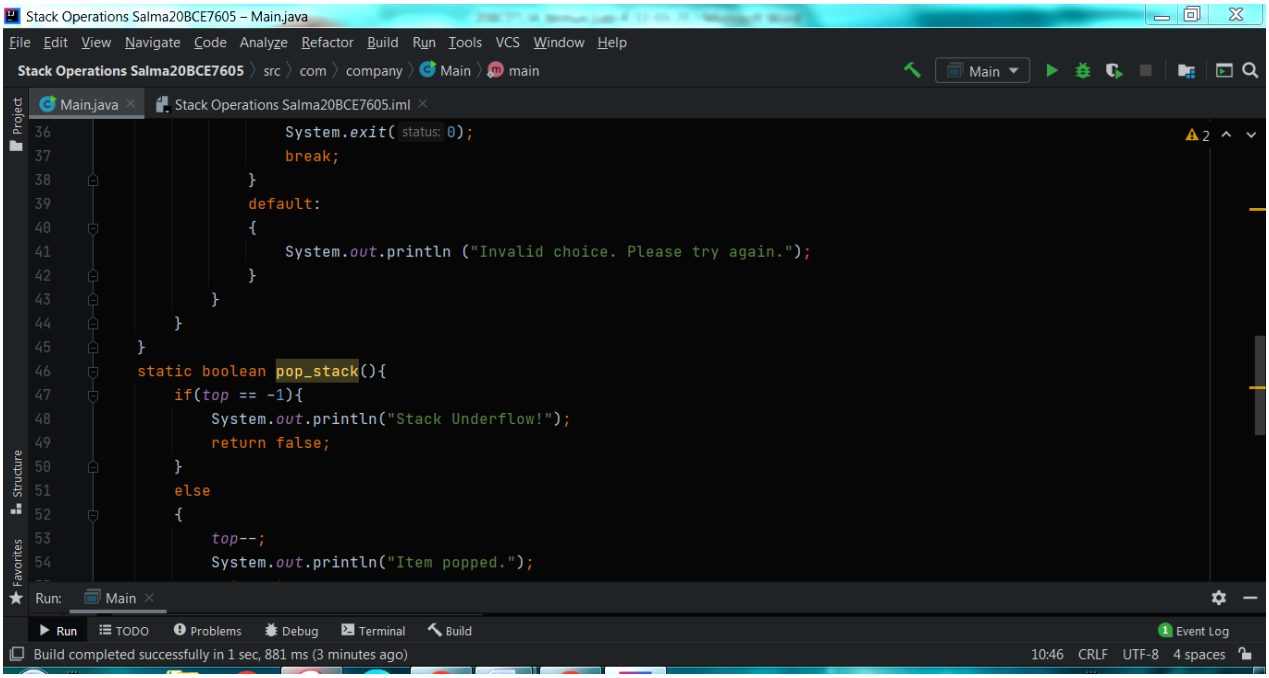
20BCE7605

LAB 3

Code:




Stack Operations Salma20BCE7605 – Main.java
File Edit View Navigate Code Analyze Refactor Build Run Tools VCS Window Help
Stack Operations Salma20BCE7605 › src › com › company › Main › main
Main
Main.java
Stack Operations Salma20BCE7605.iml
case 1:
{
pop_stack();
break;
}
case 2:
{
push_stack();
break;
}
case 3:
{
display_stack();
break;
}
case 4:
{
System.out.println("Exiting the code...");
System.exit(status: 0);
Run: Main
Run TODO Problems Debug Terminal Build
Event Log
Build completed successfully in 1 sec, 881 ms (3 minutes ago)
10:46 CRLF UTF-8 4 spaces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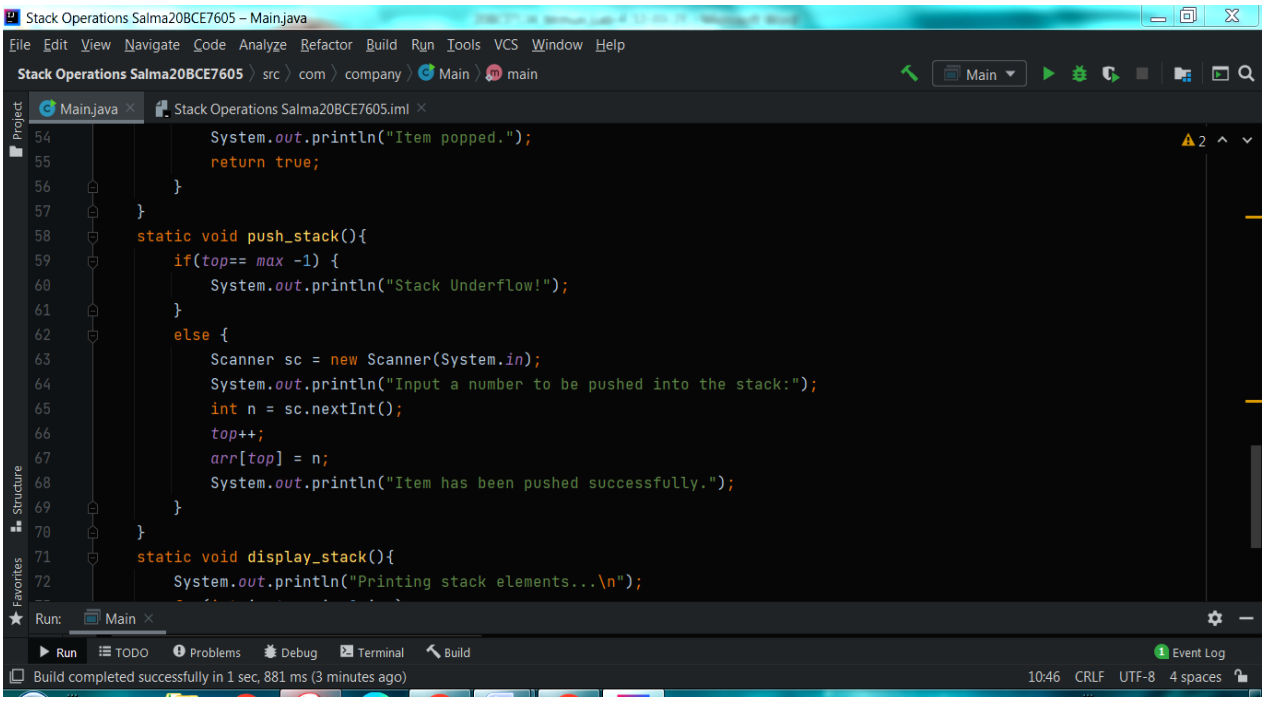
Stack Operations Salma20BCE7605 › src › com › company › Main › main
Main
Main.java
Stack Operations Salma20BCE7605.iml
System.exit(status: 0);
break;
}
default:
{
System.out.println ("Invalid choice. Please try again.");
}
}
}
}
static boolean pop_stack(){
if(top == -1){
System.out.println("Stack Underflow!");
return false;
}
else
{
top--;
System.out.println("Item popped.");
Run: Main
Run TODO Problems Debug Terminal Build
Event Log
Build completed successfully in 1 sec, 881 ms (3 minutes ago)
10:46 CRLF UTF-8 4 spaces


Stack Operations Salma20BCE7605 – Main.java
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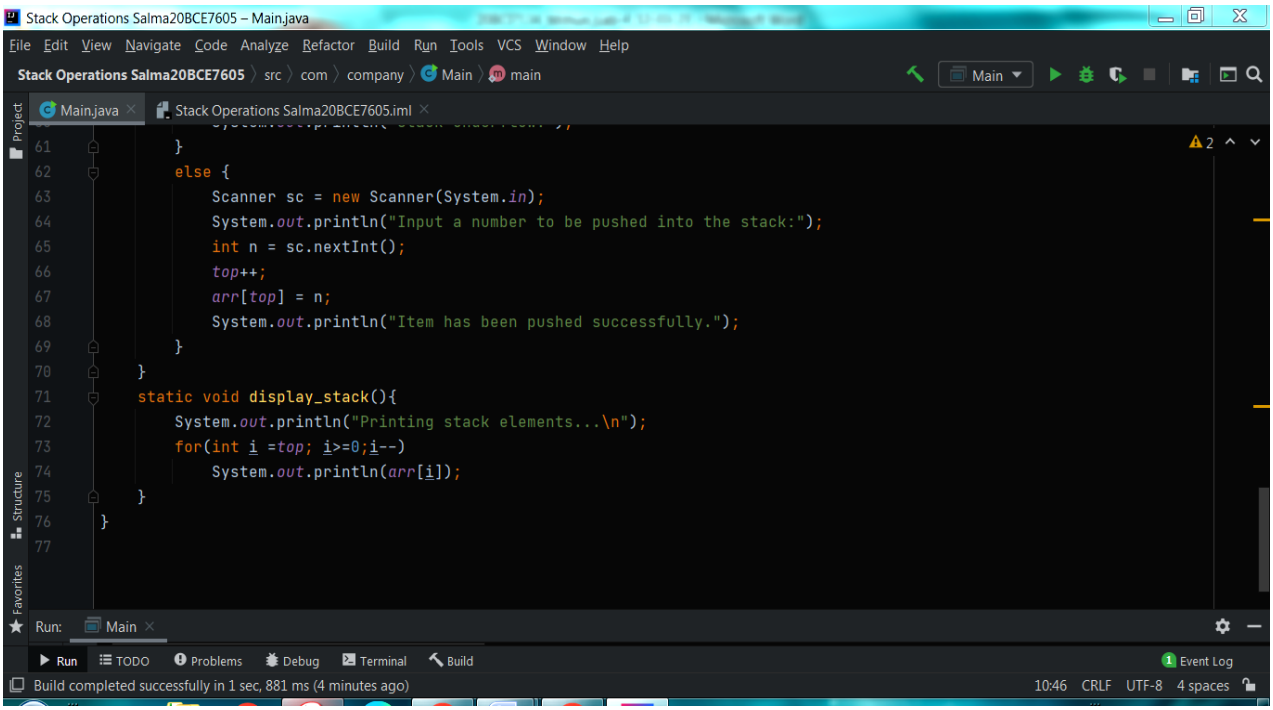
Stack Operations Salma20BCE7605 › src › com › company › Main › main
Main
Main.java
Stack Operations Salma20BCE7605.iml
System.out.println("Item popped.");
return true;
}
}
static void push_stack(){
if(top== max -1) {
System.out.println("Stack Underflow!");
}
else {
Scanner sc = new Scanner(System.in);
System.out.println("Input a number to be pushed into the stack:");
int n = sc.nextInt();
top++;
arr[top] = n;
System.out.println("Item has been pushed successfully.");
}
}
static void display_stack(){
System.out.println("Printing stack elements...\n");
Run: Main
Run TODO Problems Debug Terminal Build
Event Log
Build completed successfully in 1 sec, 881 ms (3 minutes ago)
10:46 CRLF UTF-8 4 spaces


Stack Operations Salma20BCE7605 – Main.java
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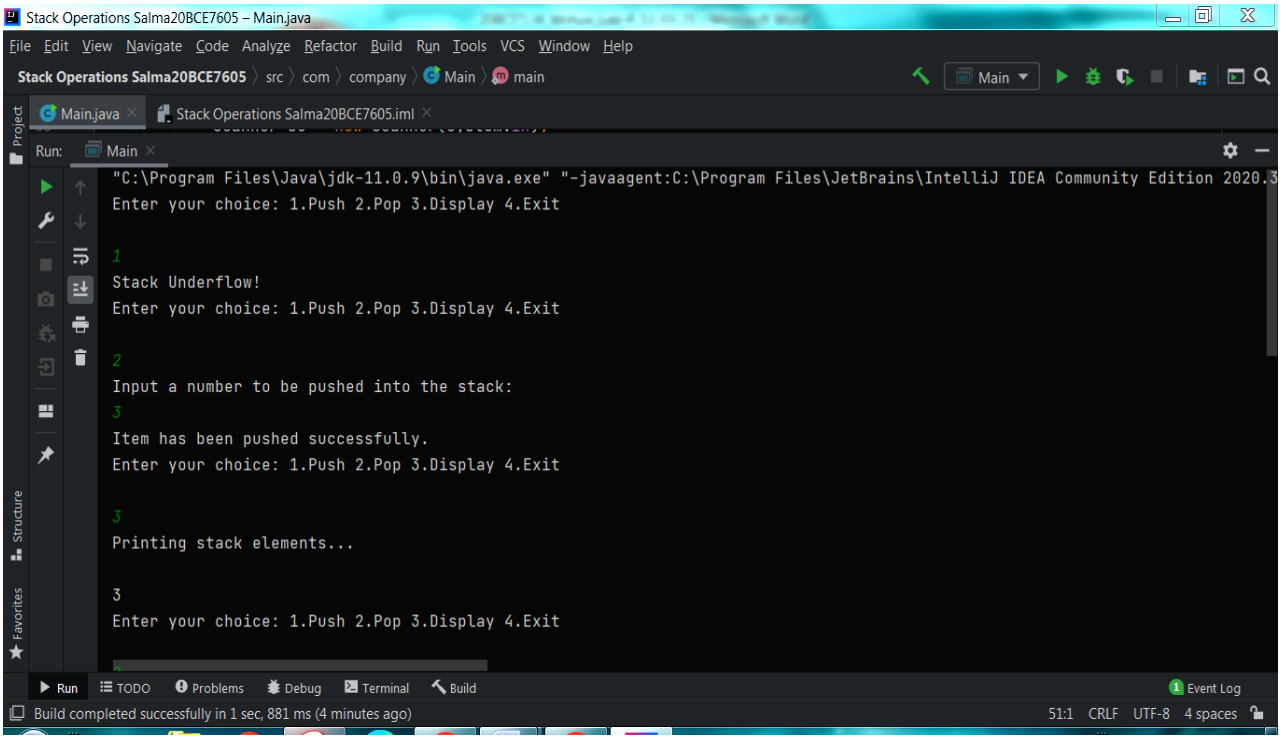
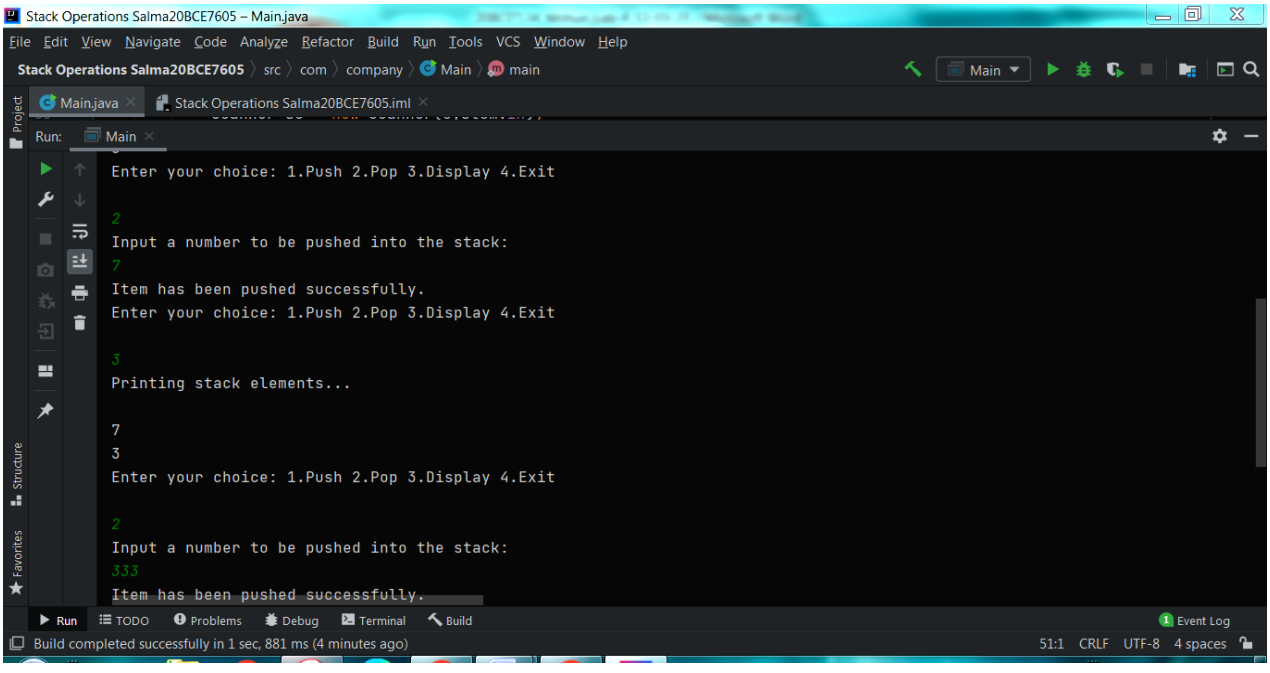
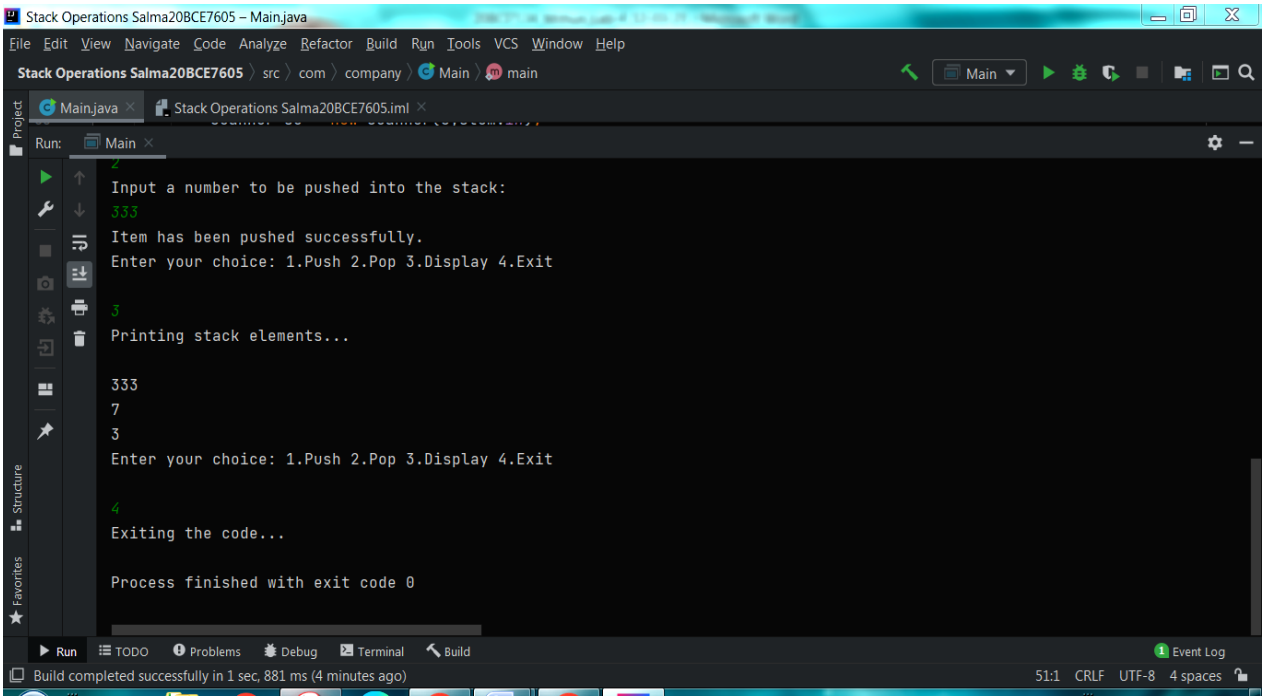
Stack Operations Salma20BCE7605 › src › com › company › Main › main
Main
Main.java
Stack Operations Salma20BCE7605.iml
}
else {
Scanner sc = new Scanner(System.in);
System.out.println("Input a number to be pushed into the stack:");
int n = sc.nextInt();
top++;
arr[top] = n;
System.out.println("Item has been pushed successfully.");
}
}
static void display_stack(){
System.out.println("Printing stack elements...\n");
for(int i =top; i>=0;i--)
System.out.println(arr[i]);
}
}
Run: Main
Run TODO Problems Debug Terminal Build
Event Log
Build completed successfully in 1 sec, 881 ms (4 minutes ago)
10:46 CRLF UTF-8 4 spaces

Output:


Stack Operations Salma20BCE7605 – Main.java
File Edit View Navigate Code Analyze Refactor Build Run Tools VCS Window Help
Stack Operations Salma20BCE7605 〉 src 〉 com 〉 company 〉 Main 〉 main
Main.java
Stack Operations Salma20BCE7605.iml
Run: Main
"C:\Program Files\Java\jdk-11.0.9\bin\java.exe" "-javaagent:C:\Program Files\JetBrains\IntelliJ IDEA Community Edition 2020.3
Enter your choice: 1.Push 2.Pop 3.Display 4.Exit
1
Stack Underflow!
Enter your choice: 1.Push 2.Pop 3.Display 4.Exit
2
Input a number to be pushed into the stack:
3
Item has been pushed successfully.
Enter your choice: 1.Push 2.Pop 3.Display 4.Exit
3
Printing stack elements...
3
Enter your choice: 1.Push 2.Pop 3.Display 4.Exit
Run TODO Problems Debug Terminal Build
Event Log
Build completed successfully in 1 sec, 881 ms (4 minutes ago)
51:1 CRLF UTF-8 4 spaces


Stack Operations Salma20BCE7605 – Main.java
File Edit View Navigate Code Analyze Refactor Build Run Tools VCS Window Help
Stack Operations Salma20BCE7605 〉 src 〉 com 〉 company 〉 Main 〉 main
Main.java
Stack Operations Salma20BCE7605.iml
Run: Main
Enter your choice: 1.Push 2.Pop 3.Display 4.Exit
2
Input a number to be pushed into the stack:
7
Item has been pushed successfully.
Enter your choice: 1.Push 2.Pop 3.Display 4.Exit
3
Printing stack elements...
7
3
Enter your choice: 1.Push 2.Pop 3.Display 4.Exit
2
Input a number to be pushed into the stack:
333
Item has been pushed successfully.
Run TODO Problems Debug Terminal Build
Event Log
Build completed successfully in 1 sec, 881 ms (4 minutes ago)
51:1 CRLF UTF-8 4 spaces


Stack Operations Salma20BCE7605 – Main.java
File Edit View Navigate Code Analyze Refactor Build Run Tools VCS Window Help
Stack Operations Salma20BCE7605 〉 src 〉 com 〉 company 〉 Main 〉 main
Main
Main.java
Stack Operations Salma20BCE7605.iml
Run: Main
2
Input a number to be pushed into the stack:
333
Item has been pushed successfully.
Enter your choice: 1.Push 2.Pop 3.Display 4.Exit
3
Printing stack elements...
333
7
3
Enter your choice: 1.Push 2.Pop 3.Display 4.Exit
4
Exiting the code...
Process finished with exit code 0
Run
TODO
Problems
Debug
Terminal
Build
Event Log
Build completed successfully in 1 sec, 881 ms (4 minutes ago)
51:1 CRLF UTF-8 4 spaces